

BACKGROUND AND SUMMARY OF THE INVENTION

A1
This application claims the priority of PCT International Application No. PCT/DE00/01510, filed 12 May 2000 and German patent document No. 199 24 906.7 filed 31 May 1999, the disclosure of which is expressly incorporated by reference herein.

Page 1, please amend the paragraph which appears after the above insertion as follows:

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The present invention relates to a semiconducting gas sensor, and to a method of gas analysis using a semiconducting gas sensor.

Page 4, please amend the second full paragraph as follows:

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It is thus one object of the present invention to create a semiconducting gas sensor and a gas sensor arrangement that is suitable for analyzing a gas or gas mixture comprising a number of components, such as, for example, ozone and that can be produced simply and cost-effectively. Furthermore, a method of gas analysis is to be provided, which will enable the analysis of a gas or gas mixture comprising a number of components via semiconducting sensors.

Page 4, please delete the third full paragraph.

Please amend the paragraph bridging pages 4 and 5 as follows:

A4

This and other objects and advantages are achieved by the semiconducting gas sensor according to the invention, which comprises a gas-sensitive layer, whose electrical conductivity can be altered via contact with a gas, a heating apparatus for heating the layer to a defined measuring temperature, contact electrodes for measuring the electrical resistance or the electrical conductivity of the gas-sensitive layer, and a chamber in which the gas sensitive layer is positioned. The chamber can be sealed from the outside; and the volume of the chamber is small enough that at least one component of the gas or gas mixture is largely exhausted via conversion, within a predetermined measuring interval, for example on the gas-sensitive layer.

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Page 9, delete the first full paragraph and insert the following paragraph and heading:

Other objects, advantages and novel features of the present invention will become apparent from the following detailed description of the invention when considered in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Page 10, after the sixth full paragraph insert the following heading:

DETAILED DESCRIPTION OF THE DRAWINGS